

[Replace Claim 5 with the following amended Claim 5:]

92 5. (Amended) An article of manufacture comprising a coating formed of a solid state C₃₆ material.

Add new Claims 10-18:

10. The composition of Claim 1 wherein the solid state material is in the form of a film or a powder.

11. The composition of Claim 1 wherein the C₃₆ fullerene based molecules are C₃₆ compounds having other atoms attached to some carbon atoms of the C₃₆ molecules.

93 12. The composition of Claim 11 wherein the other atoms are halogens.

13. The composition of Claim 12 wherein the halogen is F or Cl.

14. The composition of Claim 1 wherein the C₃₆ fullerene based molecules are substitutionally doped C₃₆ molecules having substituent atoms in place of some carbon atoms.

15. The composition of Claim 14 wherein the substitutionally doped C₃₆ molecules have the formula C₃₆-aX_a where X is the doping atom and 0 • a • 12.

16. The composition of Claim 15 wherein X is N or B.